

COMMUNITY-BASED OPEN SOURCE SECURITY

II.E Statement of Work

The primary goal of this research is to provide substantial near-term improvements to Open Source system security while simultaneously laying a foundation for longer-term, and more ambitious, improvements. In addition to implementing specific security features for near-term impact, we will engage the Open Source community in a process of ongoing security improvement. This process will be based on continuous collaboration among computer security experts and Open Source developers, and will develop pragmatic security frameworks for enhancing the security of both kernel and application-layer software. This research will both harden existing systems and provide a basis for substantially more secure Open Source systems in the future.

The contractor shall perform the tasks listed below. For each task, deliverables are identified; completion dates in months after contract award are listed in parentheses.

Task 1: Security Knowledge Transfer. This task addresses the critical need for coherent and timely security information in Open Source systems. Task 1.B depends on Task 1.A .

Task 1.A: FreeBSD Security Architecture Document. Write a document describing the security architecture of the FreeBSD operating system. This requires the logical decomposition of the system into individual abstractions and services, identifying subjects, objects, and their relationships. FreeBSD is made up of three layers, the kernel, system, and application components, each of which depends on the layer below it to build new services and security abstractions. The security architecture document will describe these components, both those existing in the system as it stands today, and as a result of other development work underway described in this proposal. **Deliverables:** A Security Architecture Document (18).

Task 1.B: Online Security Documentation. Selectively enhance the current online documentation services in FreeBSD to incorporate security guidance based on the Architecture Document. This guidance will include information on the security ramifications of correct, and incorrect, uses of system interfaces and services. Develop a guide for writing online security documentation, provide illustrative examples (i.e., of “man” pages), and collaborate with Open Source projects to foster the eventual development of enhanced security documentation for all significant system APIs and core library routines. As required, update the Security Architecture Document to maintain its relevance for all core APIs. *This work will be performed in collaboration with Safepoint Inc.* **Deliverables:** A Security Documentation Guidelines Document (6), Security Man Pages for Selected System Calls (12), Security Man Pages for Selected Popular, But Unsafe, Library Routines (18).

Task 2: Security Technology Transfer. This task will rapidly and dramatically improve Open Source system security by taking advantage of known, but not widely deployed, advanced security technologies. This task is composed of five independently-

COMMUNITY-BASED OPEN SOURCE SECURITY

selectable tasks. Each task provides a security technology to be developed in collaboration with the Open Source developers.

Task 2.A: Extended File System Extended Attributes. Modify the Berkeley Fast File System (FFS) to better support security service extensions on the FreeBSD platform. FFS will be extended to include support for fast, reliable, and tightly integrated Extended Attributes on files and directories, and a flexible upgrade path will be made available to users of the current FFS to allow easy migration. As standards are developed for Extended Attributes, we will participate in the standards process. *This work will be performed in collaboration with Open Source developers Poul-Henning Kamp and Kirk McKusick.*
Deliverables: File System Software (12), Release Documentation (12).

Task 2.B: LOMAC/BSD. Port the existing LOMAC Mandatory Access Control framework to the FreeBSD platform. Make LOMAC available for integration into the base operating system distribution, thus providing rapid access to an administrator-friendly mandatory integrity system. This will allow out-of-the-box deployment on the FreeBSD platform within nine months of funding. Investigate how LOMAC could ultimately be integrated into the Poligraph kernel extension framework (Task 2). **Deliverables:** BSD version of the LOMAC software (6).

Task 2.C: Network Stack Hardening. In this task, the FreeBSD TCP/IP implementation is extended to add support for TCP SYN cookies, TCP Endpoint Congestion Notification, and compressed TCP state. In addition, support for hardware-accelerated crypto will be developed, and the FreeBSD IP Firewall (IPFW) implementation will be tested and restructured to improve correctness. *This work will be performed in collaboration with Open Source developer Jonathon Lemon.* **Deliverables:** Security-Hardened IP Protocol Stack Software (6), Security-Hardened IP Protocol Stack Evaluation Report (6).

Task 2.D: PAM Authentication. Complete and extend the Pluggable Authentication Module (PAM) implementation for FreeBSD. Modify all major base system network daemons involved in authentication to properly employ PAM. Employ PAM as widely as possible throughout the system to correctly manage credentials, authorize login, and account for resources consumed. Introduce support for additional PAM authentication modules, including support for at least two low-cost cryptographic peripherals. *This work will be performed in collaboration with Eivind Eklund, ThinkSec AS.* **Deliverables:** Enhanced PAM Software (12), and Release Documentation (12).

Task 2.E: Cryptographic Protection of Swap and File Systems. Provide low-level device security by supporting pluggable and stackable storage device methods, and by enabling arbitrary transforms of both the data and its location on and across storage media. The framework will support facilities such as cryptographic file systems, secure swap, secure erasure, media format adaptation and fault tolerance. Two pluggable device layers will be written: a cryptographic swap storage device, and a cryptographic disk protection device. *This work will be performed in collaboration with Open Source developer Poul-Henning Kamp.*
Deliverables: Device Software Framework and Modules (6), Release Notes (6).

COMMUNITY-BASED OPEN SOURCE SECURITY

Task 3: Poligraph Kernel Extension Framework. Develop a kernel-level security framework (Poligraph) that provides separation between access control enforcement mechanisms and policy specification within the FreeBSD kernel. Using the framework, develop a composite policy that encompasses base system mechanisms (e.g., root, jail, TrustedBSD MAC, capabilities, ACLs) and that allows composed policies to be selectively enabled at kernel compile-time. Demonstrate that the framework enables introduction of new security models, at compile-time, without forcing changes elsewhere in the kernel. Develop APIs that allow these new kernel facilities to be effectively employed and managed by well-authenticated, appropriately privileged processes. Evaluate the impact of the kernel framework on kernel performance, on policy expression, and on application programs. **Deliverables:** Poligraph Prototype Software for Compile-Time Policy Extensions (9), Poligraph Evaluation Report (16), Final Compile-Time Poligraph Software (18).

Task 4: High-assurance Critical Applications. Develop a UNIX Application Privilege Model that characterizes fundamental privilege-related events within application-layer software running on UNIX-like systems. Our model will provide an analytic basis for structuring (or restructuring) application-layer software so as to minimize the risk that a flaw in any part of an application can lead to misuse of privilege. Demonstrate that critical services (e.g., WU-FTP) can be effectively restructured to dramatically reduce the security impact of perennial vulnerabilities such as buffer overflow, mis-configuration, and design error. Develop privilege-management daemons that encapsulate key system privileges (e.g., create-new-user-process, open-file-as-user) and that make privileges selectively available to applications restructured for employing privilege management techniques. Develop support libraries to facilitate communication with privilege management daemons, and to efficiently, but safely, access resources that are protected by the privilege-management framework. Validate our techniques by restructuring several critical system services, and feed the results back into the Open Source community. **Deliverables:** A UNIX Application Privilege Management Report (12), Privilege Management Daemons and Libraries (12), a Privilege-Managed Version of WU-FTP (14).

Option 1: SELinux/MLS. Implement and configure complete mandatory confidentiality (BLP) and integrity (Biba) security policy models for the SELinux security server. Implement a POSIX.1e MAC library for applications on SELinux. Demonstrate that the SELinux security server can support traditional DoD security models as well as more recent type-enforcement based models. **Deliverables:** BLP and Biba policy model software (12), and POSIX.1e MAC support libraries and utilities (12).

Option 2: Run-Time Poligraph extensions. Leveraging the compile-time security policy module service implemented above, design an extension to this architecture to allow run-time pluggable policies introduced with loadable kernel modules. Implement this architecture, and explore the impact of the architecture on user applications, the authentication/credential system in userland, and on the expressiveness and correctness of in-kernel policies. **Deliverables:** Run-Time Poligraph Prototype (9), Run-Time Poligraph Evaluation Document (16), Final Run-Time Poligraph Implementation (18), Run-Time Poligraph Architecture Document (18).

COMMUNITY-BASED OPEN SOURCE SECURITY

Option 3: Multi-Platform Application Privilege Management Work. Apply the privilege management results from Task 4 to application software running on advanced security kernels such as LOMAC, SELinux, and Poligraph-extended FreeBSD systems. By offering different, and more extensive, system access controls, these systems provide “laboratories” where application-layer and kernel-layer security policy interactions can be explored. Determine the effectiveness of application privilege management on these advanced kernels. Explore the extent to which application privilege management supports simpler and higher-assurance kernel security policies. **Deliverables:** LOMAC APM prototype (6), SELinux APM prototype (12), Poligraph APM prototype (18), Multi-Platform APM Evaluation Report (18).

COMMUNITY-BASED OPEN SOURCE SECURITY

II.F Schedule of Milestones

The following table shows the schedule of milestones in months after the beginning of base-task funding. The schedule shown for optional tasks assumes their funding begins in month 19.

6 Months	Task 1.B	Security Documentation Guidelines Document
	Task 2.B	BSD version of the LOMAC software
	Task 2.C	Security-Hardened IP Protocol Stack Software
	Task 2.C	Security-Hardened IP Protocol Stack Evaluation Report
	Task 2.E	Device Software Framework and Modules
	Task 2.E	Device Software Framework and Modules Release Notes
9 Months	Task 3	Poligraph Prototype Software for Compile-Time Policy Extensions
12 Months	Task 1.B	Security Man Pages for Selected System Calls
	Task 2.A	Extended File System Software
	Task 2.A	Extended File System Release Documentation
	Task 2.D	Enhanced PAM Software
	Task 2.D	Enhanced PAM Release Documentation
	Task 4	UNIX Application Privilege Management Report
	Task 4	Privilege Management Daemons and Libraries
14 Months	Task 4	Privileged-Managed version of WU_FTP
16 Months	Task 3	Poligraph Evaluation Report
18 Months	Task 1.A	Final Security Architecture Document
	Task 1.B	Security Man Pages for Popular, Unsafe Library Routines
	Task 3	Final Compile-Time Poligraph Software
24 Months	Option 3	LOMAC APM Prototype
27 Months	Option 2	Run-Time Poligraph Prototype
30 Months	Option 1	BLP and Biba Policy Model Software
	Option 1	POSIX.1e MAC Support Libraries and Utilities
	Option 3	SELinux APM Prototype
34 Months	Option 2	Run-Time Poligraph Evaluation Document
36 Months	Option 2	Final Run-Time Poligraph Implementation
	Option 2	Run-Time Poligraph Architecture Document
	Option 3	Poligraph APM Prototype
	Option 3	Multi-Platform APM Evaluation Report

COMMUNITY-BASED OPEN SOURCE SECURITY

II.D DELIVERABLES**II.D.1 Deliverables**

During a period of 18 months, the contractor will deliver the items below. The delivery date of each item is as marked, in the number of months from the start of base-task funding.

	<i>Deliverable</i>	<i>Month</i>
Task 1.A	Security Architecture Document	18
Task 1.B	Security Documentation Guidelines Document	6
	Security Man Pages for Selected System Calls	12
	Security Man Pages for Selected Popular, Unsafe Library Routines	18
Task 2.A	Extended File System Software	12
	Extended File System Release Documentation	12
Task 2.B	BSD version of the LOMAC software	6
Task 2.C	Security-Hardened IP Protocol Stack Software	6
	Security-Hardened IP Protocol Stack Evaluation Report	6
Task 2.D	Enhanced PAM Software	12
	Enhanced PAM Release Documentation	12
Task 2.E	Device Software Framework and Modules	6
	Device Software Framework and Modules Release Notes	6
Task 3	Poligraph Prototype Software for Compile-Time Policy Extensions	9
	Poligraph Evaluation Report	16
	Final Compile-Time Poligraph Software	18
Task 4	UNIX Application Privilege Management Report	12
	Privilege Management Daemons and Libraries	12
	Privileged-Managed version of WU_FTP	14

At the customer's option, the contractor will also deliver the additional items shown below. Each item will be delivered in the indicated number of months after the start of funding for that particular option.

	<i>Deliverable</i>	<i>Month</i>
Option 1	BLP and Biba Policy Model Software	12
	POSIX.1e MAC Support Libraries and Utilities	12
Option 2	Run-Time Poligraph Prototype	9
	Run-Time Poligraph Evaluation Document	16
	Final Run-Time Poligraph Implementation	18
	Run-Time Poligraph Architecture Document	18
Option 3	LOMAC APM Prototype	6
	SELinux APM Prototype	12
	Poligraph APM Prototype	18
	Multi-Platform APM Evaluation Report	18

252.227-7017 Identification and Assertion of Use, Release, or Disclosure Restrictions.

As prescribed in 227.7103-3(b), 227.7104(e)(2), or 227.7203-3(a), use the following provision:

IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE
RESTRICTIONS (JUN 1995)

(a) The terms used in this provision are defined in following clause or clauses contained in this solicitation-

(1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data-Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software-Small Business Innovative Research (SBIR) Program clause.

(2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software-Small Business Innovative Research (SBIR) Program clause.

(b) The identification and assertion requirements in this provision apply only to technical data, including computer software documentation, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification and identification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.

(c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.

(d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers, shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

Technical Data

Computer Software to be Furnished With Restrictions* (LIST NONE	Basis for Assertion** (LIST) NONE	Asserted Rights Category*** (LIST) NONE	Name of Person Asserting Restrictions**** (LIST) NONE
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*For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such item, component, or process. For computer software or computer software documentation identify the software or documentation.

**Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

***Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

****Corporation, individual, or other person, as appropriate.

*****Enter "none" when all data or software will be submitted without restrictions.

Date June 1, 2001

Printed Name and Title

Matthew Dick Government Contracts Manager



Signature

(End of identification and assertion)

(e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.

(f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the

Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____	
D.SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS	
1. DATA ITEM NO A001	2. TITLE OF DATA ITEM CONTRACT SUMMARY REPORT			3. SUBTITLE FINAL REPORT	
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-80447		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY 1 TIME	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION	
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A	a. ADDRESSEE		b. COPIES
			Draft		Final
			Reg		Repro
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. Blk 12: Contractor shall deliver a report NLT 30 days prior to EOC. Blk 14: Deliver copies electronically to Code D4121 via e-mail address "chats@spawar.navy.mil".			M/F CODE D4121		0 1 0
			M/F CODE D21B		0 1 0
			15. TOTAL		0 2 0
1. DATA ITEM NO A002	2. TITLE OF DATA ITEM PRESENTATION MATERIAL			3. SUBTITLE PI Meetings	
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81373		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION	
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE		b. COPIES
			Draft		Final
			Reg		Repro
16. REMARKS Blk 4: Contractor format acceptable. Create material using MS OFFICE applications. Blks 10, 12 & 13: The contractor shall provide briefing material NLT 10 working days after each PI meeting. Not expected to exceed 3 per year. Blk 14: Deliver copies electronically only to Code D4121 via e-mail address "chats@spawar.navy.mil". D4121 will make all internal distribution.			M/F CODE D4121		0 1 0
			M/F CODE D21B		0 1 0
			15. TOTAL		0 2 0
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY Raul Castro, TAO, Code D21		J. DATE 06/27/01

17. PRICE GROUP

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Page 1 of 3 Pages

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____			
D. SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS			
1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM TECHNICAL REPORT-STUDY/SERVICES			3. SUBTITLE Findings and Recommendations			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE 0	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE	b. COPIES		
16. REMARKS Blk 4: Contractor format acceptable. Create material using MS OFFICE applications. Blks 10,12 & 13: The contractor shall provide reports per proposal paragraph D. Blk 14: Deliver copies electronically to Code D4121 via e-mail address "chats@spawar.navy.mil".				Draft	Final		
				Reg	Repro		
				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
				M/F CODE D211	0	1	0
				15. TOTAL		0	3
1. DATA ITEM NO. A004	2. TITLE OF DATA ITEM CONTRACTOR'S PROGRESS, STATUS AND MANAGEMENT REPORT			3. SUBTITLE Quarterly Project Status Report			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY QRTLY	12. DATE OF FIRST SUBMISSION NLT 91DAC	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE 0	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE	b. COPIES		
16. REMARKS Blk 4: Create report using MS OFFICE applications. Specific content of deliverable is available in template form from the government agent. Blks 12 & 13: First submission due NLT 15 days after the end of the 1st complete calendar quarter after award. Subsequent submission due quarterly thereafter; NLT 15 DARF. The 2nd calendar quarter will be substituted by CDRL A005. Blk 14: Deliver copies electronically only to Code D4121 via e-mail address "chats@spawar.navy.mil". D4121 will make all internal distribution.				Draft	Final		
				Reg	Repro		
				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
				M/F CODE D211	0	1	0
				15. TOTAL		0	3
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY Raul Castro, TAO Code D4121		J. DATE 06/27/01		

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT A		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____			
D. SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS			
1. DATA ITEM NO A005	2. TITLE OF DATA ITEM TECHNICAL REPORT-STUDY/SERVICES			3. SUBTITLE DARPA Annual Report			
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ANNLY	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	SEE ATTACHMENT 1	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES		
				Draft	Final		
				Reg	Repro		
16. REMARKS Blk 4: Contractor format authorized. Create report using MS OFFICE applications. Blk 12: Provide report annually in July. This report will be substituted for the 2nd calendar quarterly report each year. Blk 14: Deliver copies electronically only to Code D4121 via e-mail address "chats@spawar.navy.mil". D4121 will make all internal distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
				15. TOTAL	0	2	0
1. DATA ITEM NO A006	2. TITLE OF DATA ITEM COMPUTER SOFTWARE PRODUCT END ITEMS			3. SUBTITLE Software Items			
4. AUTHORITY (Data Acquisition Document No.) DI-MCCR-80700		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	SEE ATTACHMENT 1	11. AS OF DATE 0	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES		
				Draft	Final		
				Reg	Repro		
16. REMARKS Blk 4: DID PARA 10.3.1 Contents: Source and Executable Codes/Make files/Documentation DID Para 10.3.2 - Media: Electronic DOD Para 10.3.2 - Foremat: VI or compatible Blk 10: Due at demonstration time and EOC. Blk 12: Per proposal paragraph D. Blk 14: Deliver copies electronically to Code D4121 via WWW address "http://ssc-sd-att". D4121 will make distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
				15. TOTAL	0	2	0
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY Raul Castro, TAG Code D21B		J. DATE 06/27/01		

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D.SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS			
1. DATA ITEM NO. B001	2. TITLE OF DATA ITEM CONTRACT SUMMARY REPORT			3. SUBTITLE Option 1: Final Report			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-80447		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY 1 TIME	12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A	a. ADDRESSEE				
			b. COPIES				
			Draft				
			Final				
			Reg				
			Repro				
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. Blk 12: Contractor shall deliver a report NLT 30 days prior to EOC. Blk 14: Deliver copies electronically to Code D4121 via email address "chats@spawar.navy.mil". D4121 will make distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
15. TOTAL				0	2	0	
1. DATA ITEM NO. B002	2. TITLE OF DATA ITEM PRESENTATION MATERIAL			3. SUBTITLE Option 1: PI Meetings			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81373		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE				
			b. COPIES				
			Draft				
			Final				
			Reg				
			Repro				
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. Blk 10, 12 & 13: The contractor shall provide briefing material NLT 10 working days after each PI Meeting. Not expected to exceed 3 per year. Blk 14: Deliver copies electronically to Code D4121 via email address "chats@spawar.navy.mil". D4121 will make distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
15. TOTAL				0	2	0	
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY R. Castro, TAO, Code D21		J. DATE 06/27/01		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002				B. EXHIBIT B		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____							
D. SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE				E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS							
1. DATA ITEM NO B003		2. TITLE OF DATA ITEM CONTRACTOR'S PROGRESS, STATUS AND MANAGEMENT REPORT				3. SUBTITLE Option 1: Quarterly Project Status Report							
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227				5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121							
7. DD 250 REQ LT		9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1		10. FREQUENCY QRTLY		12. DATE OF FIRST SUBMISSION (Final)		14. DISTRIBUTION					
8. APP CODE N/A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION (Final) SEE BLK 16		a. ADDRESSEE		b. COPIES					
16. REMARKS Blk 4: Create reports using MS OFFICE applications. Specific content of deliverable is available in template form from government agent. Blk 12 & 13: First submission due NLT 15 days after the end of the 1st complete calendar quarter after beginning of Option 1 start period. Subsequent submission due quarterly thereafter; NLT 15 DARF. The 2nd calendar quarter will be substituted by CDRL A005. Blk 14: Deliver copies electronically to Code D4121 via email address "chats@spawar.navy.mil". D4121 will make distribution.						Draft		Final					
						Reg		Repro					
						M/F CODE D4121		0		1		0	
						M/F CODE D21B		0		1		0	
						15. TOTAL		0		2		0	
1. DATA ITEM NO B004		2. TITLE OF DATA ITEM COMPUTER SOFTWARE PRODUCT END ITEMS				3. SUBTITLE Option 1							
4. AUTHORITY (Data Acquisition Document No.) DI-MCCR-80700				5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121							
7. DD 250 REQ NO		9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1		10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16		14. DISTRIBUTION					
8. APP CODE N/A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES					
16. REMARKS Blk 4: DID Para 10.3.1 Contents: Source and Executable codes/make files/documentation. DID Para 10.3.2 - Media: Electronic DOD Para 10.3.2 - Format: VI or compatible Blk 10: Due at time of demonstration and EOC. Blk 12: Per proposal paragraph D. Blk 14: Deliver copies electronically to Code D4121 via WWW address "http://ssc-sd-att". D4121 will make distribution.						Draft		Final					
						Reg		Repro					
						M/F CODE D4121		0		1		0	
						M/F CODE D21B		0		1		0	
						15. TOTAL		0		2		0	
G. PREPARED BY S. Spendlove				H. DATE / /		I. APPROVED BY Raul Castro, TAO, Code D21T		J. DATE 06/27/01					

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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Page 2 of 2 Pages

TAO# N66001-1108-410X

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT C		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____			
D.SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS			
1. DATA ITEM NO C001	2. TITLE OF DATA ITEM CONTRACT SUMMARY REPORT			3. SUBTITLE Option 2: Final Report			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-80447		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY 1 TIME	12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A		a. ADDRESSEE	b. COPIES		
				Draft	Final		
				Reg	Repro		
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. Blk 12: Contractor shall deliver a report NLT 30 days prior to EOC. Blk 14: Deliver copies electronically to Code D4121 via email address "chats@spawar.navy.mil". D4121 will make distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
15. TOTAL				0	2	0	
1. DATA ITEM NO C002	2. TITLE OF DATA ITEM PRESENTATION MATERIAL			3. SUBTITLE Option 2: PI Meetings			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81373		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE	b. COPIES		
				Draft	Final		
				Reg	Repro		
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. Blk 10, 12 & 13: Contractor shall provide briefing material NLT 10 working days after each PI Meeting. Not expected to exceed 3 per year. Blk 14: Deliver copies electronically to Code D4121 via email address "chats@spawar.navy.mil". D4121 will make distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
15. TOTAL				0	2	0	
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY Raul Castro TAO Code D21		J. DATE 06/27/01		

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

DD Form 1423-2, JUN 90

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Page 1 of 2 Pages

TAO# N66001-1108-410X

CONTRACT DATA REQUIREMENTS LIST

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT C		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____	
D.SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS	
1. DATA ITEM NO C003	2. TITLE OF DATA ITEM CONTRACTOR'S PROGRESS, STATUS AND MANAGEMENT REPORT			3. SUBTITLE Option 2: Quarterly Project Status Report	
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121	
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY QRTLTY	12. DATE OF FIRST SUBMISSION (Final) NLT 91DAC	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION (Final) SEE BLK 16	a. ADDRESSEE	b. COPIES
					Draft Final Reg Repro
16. REMARKS Blk 4: Create reports using MS OFFICE applications. Specific content of deliverable is available in template form from the government agent. Blk 12 & 13: First submission due NLT 15 days after the end of the first complete calendar quarter after beginning of Option 2 start period. Subsequent submission due quarterly thereafter; NLT DARF. The second calendar quarter will be substituted by CDRL A005. Blk 14: Deliver copies electronically to Code D4121 via email address "chats@spawar.navy.mil". D4121 will make distribution.				M/F CODE D4121	0 1 0
				M/F CODE D21B	0 1 0
15. TOTAL				0	2 0
1. DATA ITEM NO C004	2. TITLE OF DATA ITEM COMPUTER SOFTWARE PRODUCT END ITEMS			3. SUBTITLE Option 2	
4. AUTHORITY (Data Acquisition Document No.) DI-MCCR-80700		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSYSCEN, SAN DIEGO D4121	
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16	14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES
					Draft Final Reg Repro
16. REMARKS Blk 4: DID Para 10.3.1 Contents: Source and Executable codes/make files/documentation. DID Para 10.3.2 - Media: Electronic DOD Para 10.3.1 - Format: VI or compatible Blk 12: Per proposal paragraph D. Blk 14: Deliver copies electronically to Code D4121 via WWW address "http://ssc-sd-att". D4121 will make distribution.				M/F CODE D4121	0 1 0
				M/F CODE D21B	0 1 0
15. TOTAL				0	2 0
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY Raul Castro TAO Code D21T		J. DATE 06/27/01

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT D		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____			
D.SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS			
1. DATA ITEM NO D001	2. TITLE OF DATA ITEM CONTRACT SUMMARY REPORT			3. SUBTITLE Option 3: Final Report			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-80447		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY 1 TIME	12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	SEE ATTACHMENT 1	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION N/A	a. ADDRESSEE	b. COPIES		
				Draft	Final		
				Reg	Repro		
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. BLK 12: Contractor shall deliver a report NLT 30 days prior to EOC. Blk 14: Deliver copies electronically to Code D4121 via email to "chats@spawar.navy.mil".				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
				15. TOTAL	0	2	0
1. DATA ITEM NO D002	2. TITLE OF DATA ITEM PRESENTATION MATERIAL			3. SUBTITLE Option 3: PI Meetings			
4. AUTHORITY (Data Acquisition Document No.) DI-ADMN-81373		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	SEE ATTACHMENT 1	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES		
				Draft	Final		
				Reg	Repro		
16. REMARKS Blk 4: Contractor format acceptable. Create reports using MS OFFICE applications. BLK 10, 12 & 13: The contractor shall provide briefing material NLT 10 working days after each PI Meeting. Not expected to exceed 3 per year. Blk 14: Deliver copies electronically to Code D4121 via email to "chats@spawar.navy.mil". D4121 will make all internal distribution.				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
				15. TOTAL	0	2	0
G. PREPARED BY S. Spendlove		H. DATE / /		I. APPROVED BY Raul Casco, TAO Code D4121		J. DATE 06/27/01	

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

17. PRICE GROUP

18. ESTIMATED
TOTAL PRICE

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Page 1 of 2 Pages

TAO# N66001-1108-410X

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A. CONTRACT LINE ITEM NO. 0002		B. EXHIBIT D		C. CATEGORY: TDP _____ TM _____ OTHER _____ MISC _____			
D.SYSTEM/ITEM COMMUNITY BASED OPEN SOURCE SE		E. CONTRACT/PR NO. N66001-01-C-8035		F. CONTRACTOR NAI LABS			
1. DATA ITEM NO D003	2. TITLE OF DATA ITEM CONTRACTOR'S PROGRESS, STATUS AND MANAGEMENT REPORT			3. SUBTITLE Option 3: Quarter Project Status Report			
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-80227		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY QRTLY	12. DATE OF FIRST SUBMISSION (Final) NLT 91DAC	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION (Final) SEE BLK 16		a. ADDRESSEE	b. COPIES		
<p>16. REMARKS</p> <p>Blk 4: Create reports using MS OFFICE applications. Specific content of deliverable is available in template form from the government agent.</p> <p>BLK 12 & 13: First submission due NLT 15 days after the end of the first complete calendar quarter after start of Option 3. Subsequent submissions due quarterly thereafter; NLT DARF. The second calendar quarter will be substituted by CDRL A005.</p> <p>Blk 14: Deliver copies electronically to Code D4121 via email to "chats@spawar.navy.mil". D4121 will make all internal distribution.</p>				Draft	Final		
				Reg	Repro		
				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
15. TOTAL				0	2	0	
1. DATA ITEM NO D004	2. TITLE OF DATA ITEM COMPUTER SOFTWARE PRODUCT END ITEMS			3. SUBTITLE Option 3			
4. AUTHORITY (Data Acquisition Document No.) DI-MCCR-80700		5. CONTRACT REFERENCE SOW PARA E		6. REQUIRING OFFICE SPAWARSSYSCEN, SAN DIEGO D4121			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED SEE ATTACHMENT 1	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION (Final) SEE BLK 16	14. DISTRIBUTION			
8. APP CODE N/A	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE	b. COPIES		
<p>16. REMARKS</p> <p>Blk 4: DID Para 10.3.1 Contents: Source and Executable Codes/Make files/documentation.</p> <p>DID Para 10.3.2 - Media: Electronic</p> <p>DOD Para 10.3.2 - Format: VI or compatible</p> <p>Blk 10: Due at demonstration time and EOC.</p> <p>Blk 12: Per proposal paragraph D.</p> <p>Blk 14: Deliver copies electronically to Code D4121 via WWW address "http://ssc-sd-att". D4121 will make all internal distribution.</p>				Draft	Final		
				Reg	Repro		
				M/F CODE D4121	0	1	0
				M/F CODE D21B	0	1	0
15. TOTAL				0	2	0	
G. PREPARED BY S. Spendlove		H. DATE / /	I. APPROVED BY Raul Castro TAO, Code D21T		J. DATE 06/27/01		

17. PRICE GROUP

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